Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:SSPTATDH1621

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS 1   Web Page for STN Seminar Schedule - N. America
 NEWS 2 DEC 01 ChemPort single article sales feature unavailable
 NEWS 3 APR 03 CAS coverage of exemplified prophetic substances
                 enhanced
 NEWS 4 APR 07 STN is raising the limits on saved answers
 NEWS 5 APR 24 CA/CAplus now has more comprehensive patent assignee
                 information
 NEWS 6 APR 26 USPATFULL and USPAT2 enhanced with patent
                 assignment/reassignment information
 NEWS 7 APR 28 CAS patent authority coverage expanded
 NEWS 8 APR 28 ENCOMPLIT/ENCOMPLIT2 search fields enhanced
 NEWS 9 APR 28 Limits doubled for structure searching in CAS
                 REGISTRY
 NEWS 10 MAY 08 STN Express, Version 8.4, now available
 NEWS 11 MAY 11 STN on the Web enhanced
 NEWS 12 MAY 11 BEILSTEIN substance information now available on
                 STN Easy
 NEWS 13 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased
                 limits for exact sequence match searches and
_   introduction of free HIT display format
 NEWS 14 MAY 15 INPADOCDB and INPAFAMDB enhanced with Chinese legal
                 status data
 NEWS 15 MAY 28 CAS databases on STN enhanced with NANO super role in
                 records back to 1992
 NEWS 16 JUN 01 CAS REGISTRY Source of Registration (SR) searching
                 enhanced on STN
 NEWS 17 JUN 25 NUTRACEUT and PHARMAML discontinued

 NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
           AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

 NEWS HOURS   STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN   Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that
specific topic.

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 gateways, or use of CAS and STN data in the building of commercial
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 and other penalties.

FILE 'HOME' ENTERED AT 13:20:59 ON 25 JUN 2009

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Some commands only work in certain files. For example, the EXPAND
command can only be used to look at the index in a file which has an
index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of
commands which can be used in this file.

```
=> FILE REGISTRY
COST IN U.S. DOLLARS                        SINCE FILE     TOTAL
                                            ENTRY    SESSION
FULL ESTIMATED COST                           0.22       0.22

FILE 'REGISTRY' ENTERED AT 13:21:36 ON 25 JUN 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2009 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:  23 JUN 2009  HIGHEST RN 1159631-40-9
DICTIONARY FILE UPDATES:  23 JUN 2009  HIGHEST RN 1159631-40-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:¥TDH PTA¥Application Examination¥Series 10¥10 544211¥STN¥STN 10 544211
062509AA.str
```
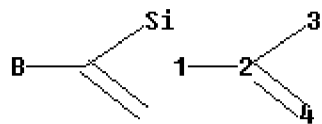


```
chain nodes :
2  3  4
ring nodes :
1
chain bonds :
1-2  2-3  2-4
exact bonds :
1-2  2-3  2-4




Match level :
1:Atom  2:CLASS  3:CLASS  4:CLASS




L1     STRUCTURE UPLOADED

=> D
L1 HAS NO ANSWERS
```
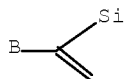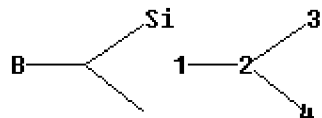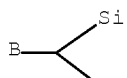
L1   STR

```
        Si
       /
  B===
```

Structure attributes must be viewed using STN Express query preparation.

=>
Uploading C:¥TDH PTA¥Application Examination¥Series 10¥10 544211¥STN¥STN 10 544211
062509AB.str

```
    Si            3
   /            /
B——      1——2
   \            \
                  4
```

chain nodes :
2 3 4
ring nodes :
1
chain bonds :
1-2 2-3 2-4
exact bonds :
1-2 2-3 2-4

Match level :
1:Atom 2:CLASS 3:CLASS 4:CLASS
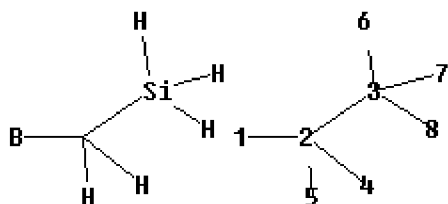

L2   STRUCTURE UPLOADED

=> D
L2 HAS NO ANSWERS
L2   STR

```
        Si
       /
  B——
       \
```


Structure attributes must be viewed using STN Express query preparation.

=>
Uploading C:¥TDH PTA¥Application Examination¥Series 10¥10 544211¥STN¥STN 10 544211
062509AC.str

```
chain nodes :
2  3  4  5  6  7  8
ring nodes :
1
chain bonds :
1-2  2-3  2-4  2-5  3-6  3-7  3-8
exact bonds :
1-2  2-3  2-4  2-5  3-6  3-7  3-8


Match level :
1:Atom  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS  8:CLASS
```
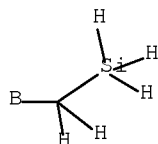
```
L3       STRUCTURE UPLOADED

=> D
L3 HAS NO ANSWERS
L3              STR
```



```
Structure attributes must be viewed using STN Express query preparation.


=> S L1
SAMPLE SEARCH INITIATED 13:22:24 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     110 TO ITERATE

100.0% PROCESSED     110 ITERATIONS                       8 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       1571 TO     2829
PROJECTED ANSWERS:             8 TO      329


L4             8 SEA SSS SAM L1

=> S L1 SSS FULL
FULL SEARCH INITIATED 13:22:35 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    1882 TO ITERATE

100.0% PROCESSED    1882 ITERATIONS                      110 ANSWERS
```

```
SEARCH TIME: 00.00.01


L5          110 SEA SSS FUL L1

=> S L2
SAMPLE SEARCH INITIATED 13:23:21 FILE 'REGISTRY'
SCREENING
SAMPLE SCREEN SEARCH COMPLETED -    451 TO ITERATE

100.0% PROCESSED    451 ITERATIONS                      5 ANSWERS
SEARCH TIME: 00.00.20

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       7746 TO   10294
PROJECTED ANSWERS:             5 TO      234

L6            5 SEA SSS SAM L2

=> S L2 SSS FULL
FULL SEARCH INITIATED 13:23:55 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    8637 TO ITERATE

100.0% PROCESSED    8637 ITERATIONS                    86 ANSWERS
SEARCH TIME: 00.00.01


L7           86 SEA SSS FUL L2

=> S L3
SAMPLE SEARCH INITIATED 13:24:16 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    451 TO ITERATE

100.0% PROCESSED    451 ITERATIONS                      0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       7746 TO   10294
PROJECTED ANSWERS:             0 TO        0

L8            0 SEA SSS SAM L3

=> S L3 SSS FULL
FULL SEARCH INITIATED 13:24:41 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    8641 TO ITERATE

100.0% PROCESSED    8641 ITERATIONS                     1 ANSWERS
SEARCH TIME: 00.00.01


L9            1 SEA SSS FUL L3

=> D L9

L9   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2009 ACS on STN
RN   524066-86-2  REGISTRY
ED   Entered STN: 02 Jun 2003
CN   Boron, μ-phenylphenyl(silylmethyl)[μ-(silylmethylene)]tri- (9CI)
     (CA INDEX NAME)
MF   C14 H19 B3 Si2
CI   CCS
```
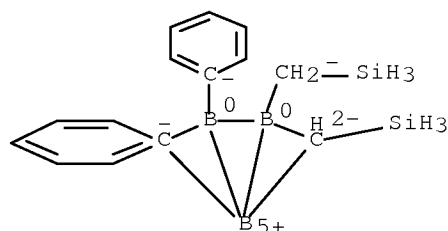
SR   CA
LC   STN Files: CA, CAPLUS

        1 REFERENCES IN FILE CA (1907 TO DATE)
        1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> D HIS

      (FILE 'HOME' ENTERED AT 13:20:59 ON 25 JUN 2009)
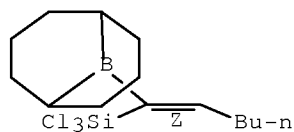
      FILE 'REGISTRY' ENTERED AT 13:21:36 ON 25 JUN 2009
L1   STRUCTURE UPLOADED
L2   STRUCTURE UPLOADED
L3   STRUCTURE UPLOADED
L4   8 S L1
L5   110 S L1 SSS FULL
L6   5 S L2
L7   86 S L2 SSS FULL
L8   0 S L3
L9   1 S L3 SSS FULL

=> D L5 SCAN

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   9-Borabicyclo[3.3.1]nonane, 9-[(1Z)-1-(trichlorosilyl)-1-hexen-1-yl]-
MF   C14 H24 B Cl3 Si

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   1,3,2-Dioxaborolane, 2-[(1Z)-1-(dimethylphenylsilyl)-3-phenyl-1,3-butadien-
     1-yl]-4,4,5,5-tetramethyl-

MF   C24 H31 B O2 Si
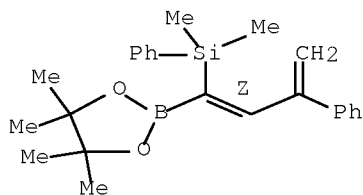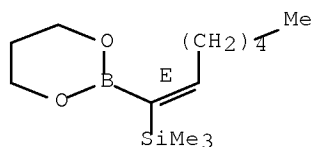
Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY   COPYRIGHT 2009 ACS on STN
IN   1,3,2-Dioxaborinane, 2-[(1E)-1-(trimethylsilyl)-1-hepten-1-yl]-
MF   C13 H27 B O2 Si

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY   COPYRIGHT 2009 ACS on STN
IN   9-Borabicyclo[3.3.1]nonane, 9-[(1Z)-1-(dimethylsilyl)-2-
      (trimethylsilyl)ethenyl]-
MF   C15 H31 B Si2

Double bond geometry as shown.

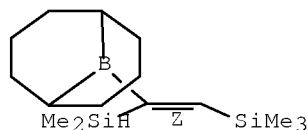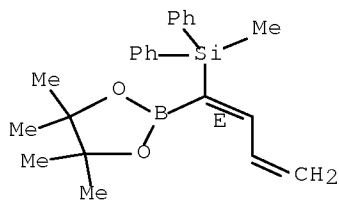**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   1,3,2-Dioxaborolane, 4,4,5,5-tetramethyl-2-[(1E)-1-(methyldiphenylsilyl)-
     1,3-butadien-1-yl]-
MF   C23 H29 B O2 Si

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   1,3,2-Dioxaborinane, 2-[(1Z)-3-methyl-1-(trimethylsilyl)-1-penten-1-yl]-
MF   C12 H25 B O2 Si
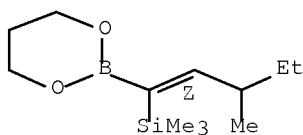
Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   9-Borabicyclo[3.3.1]nonane, 9-[1-(trimethylsilyl)-1-octenyl]-, (Z)- (9CI)
MF   C19 H37 B Si

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   1,3,2-Dioxaborolane, 4,4,5,5-tetramethyl-2-[1-(trimethylsilyl)-1-propenyl]-
     , (Z)- (9CI)
MF   C12 H25 B O2 Si

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   1,3,2-Dioxaborolane, 2-[4-(dimethylphenylsilyl)-1-(trimethylsilyl)-1,2-
     butadien-1-yl]-4,4,5,5-tetramethyl-
MF   C21 H35 B O2 Si2

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   9-Borabicyclo[3.3.1]nonane, 9-[(1Z)-1-(chlorophenylsilyl)-2-phenylethenyl]-

MF   C22 H26 B Cl Si
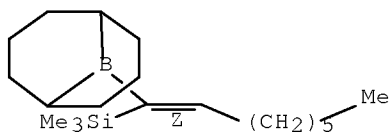
Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   Borazine, 2,4,6-tris[1-(trichlorosilyl)ethenyl]-
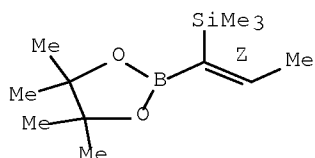MF   C6 H9 B3 Cl9 N3 Si3

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   9-Borabicyclo[3.3.1]nonane, 9-[(1E)-1-(chlorodimethylsilyl)-2-
      (trimethylsilyl)ethenyl]-
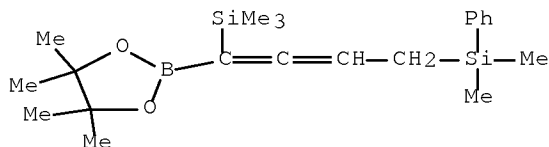MF   C15 H30 B Cl Si2

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   1,3,2-Dioxaborolane, 2-[(1R)-1-(dimethylphenylsilyl)-1,2-butadienyl]-
     4,4,5,5-tetramethyl- (9CI)
MF   C18 H27 B O2 Si

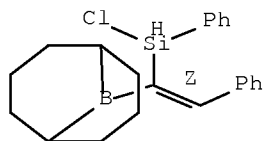Absolute stereochemistry. Rotation (-).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   1,3,2-Dioxaborolane, 2-[(1E)-1-(dimethylphenylsilyl)-1-decen-3-yn-1-yl]-
     4,4,5,5-tetramethyl-
MF   C24 H37 B O2 Si

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN

```
IN   Carbamic acid, [(1R)-5-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1-[(1Z)-2-
     (4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-2-
     (trimethylsilyl)ethenyl]pentyl]-, 1,1-dimethylethyl ester (9CI)
MF   C27 H56 B N O5 Si2
```

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

```
L5   110 ANSWERS   REGISTRY  COPYRIGHT 2009 ACS on STN
IN   9-Borabicyclo[3.3.1]nonane, 9-[3-[(1,1-dimethylethyl)dimethylsilyl]-1-
     (trimethylsilyl)-1,2-propadien-1-yl]-
MF   C20 H39 B Si2
```


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

```
L5   110 ANSWERS   REGISTRY  COPYRIGHT 2009 ACS on STN
IN   1,3,2-Benzodioxaborole, 2-[1-(trimethylsilyl)-1-octenyl]-, (Z)- (9CI)
MF   C17 H27 B O2 Si
```

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   9-Borabicyclo[3.3.1]nonane, 9-[(1Z)-1-(dichlorophenylsilyl)-2-
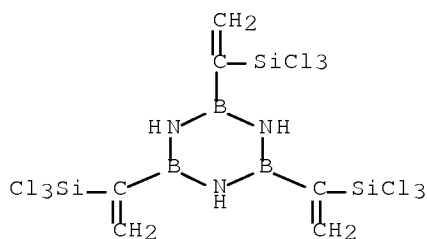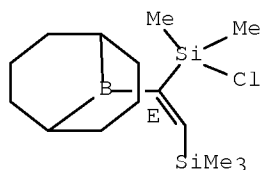   phenylethenyl]-
MF   C22 H25 B Cl2 Si
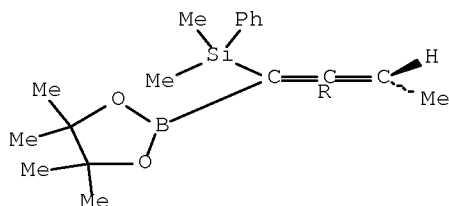
Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   1,3,2-Dioxaborolane, 2-[(1E)-1-(dimethylphenylsilyl)-3-phenyl-1,3-butadien-
     1-yl]-4,4,5,5-tetramethyl-
MF   C24 H31 B O2 Si
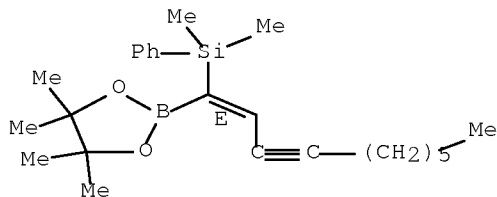
Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   1,3,2-Dioxaborinane, 2-[(1E)-1-(trimethylsilyl)-1-hexen-1-yl]-

MF   C12 H25 B O2 Si

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   9-Borabicyclo[3.3.1]nonane, 9-[(1Z)-1-(dimethylsilyl)-2-phenylethenyl]-
MF   C18 H27 B Si

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   1,3,2-Dioxaborolane, 2-[1-(dimethylphenylsilyl)-1-decen-3-yn-1-yl]-4,4,5,5-
      tetramethyl-
MF   C24 H37 B O2 Si

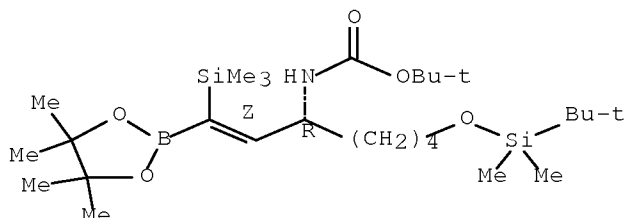**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   1,3,2-Dioxaborinane, 2-[(1Z)-5-chloro-1-(trimethylsilyl)-1-penten-1-yl]-
MF   C11 H22 B Cl O2 Si

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   1,3,2-Dioxaborolane, 2,2',2''-[1-(trimethylsilyl)-1-ethenyl-2-
     ylidene]tris[4,4,5,5-tetramethyl- (9CI)
MF   C23 H45 B3 O6 Si

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
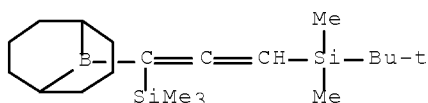IN   9-Oxa-10-borabicyclo[3.3.2]decane,
     10-[(1Z)-1-(trimethylsilyl)-1-propen-1-yl]-
MF   C14 H27 B O Si
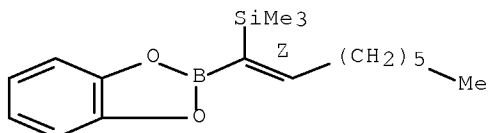
Double bond geometry as shown.
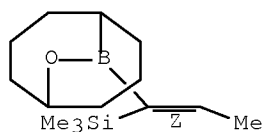
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   9-Borabicyclo[3.3.1]nonane, 9,9'-[(dichlorosilylene)di-(1Z)-1-hexen-1-
     ylidene]bis-
MF   C28 H48 B2 Cl2 Si

Double bond geometry as shown.
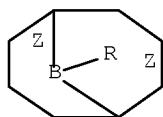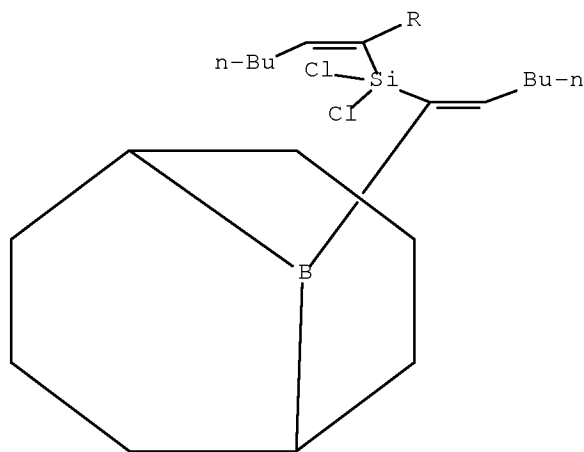
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   9-Borabicyclo[3.3.1]nonane, 9-[(1Z)-1-(chlorophenylsilyl)-1-hexen-1-yl]-
MF   C20 H30 B Cl Si
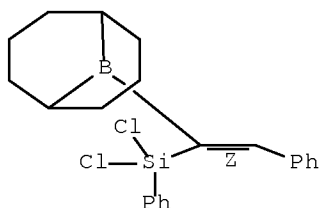
Double bond geometry as shown.
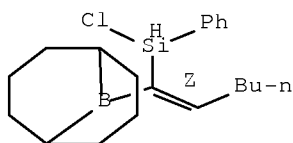
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   1,3,2-Dioxaborinane, 2-[(1E)-4-phenyl-1-(trimethylsilyl)-1-buten-1-yl]-
MF   C16 H25 B O2 Si

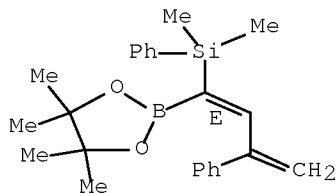Double bond geometry as shown.
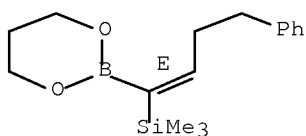
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   9-Borabicyclo[3.3.1]nonane, 9-[(1Z)-1-(chlorodimethylsilyl)-2-
      (trimethylsilyl)ethenyl]-
MF   C15 H30 B Cl Si2

Double bond geometry as shown.
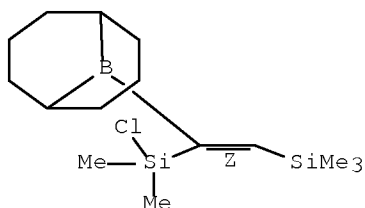
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

IN   1,3,2-Dioxaborolane, 2-[1-(dimethylphenylsilyl)-1,2-octadien-1-yl]-4,4,5,5-
     tetramethyl-
MF   C22 H35 B O2 Si
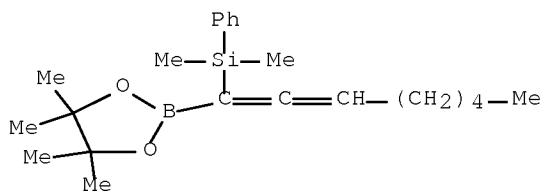
```
                    Ph
                    |
              Me—Si—Me
   Me    O         |
     \   ‖         C═C═CH—(CH2)4—Me
      \ B—
     / ‖
   Me   O
   Me  |
       Me
```

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

IN   1,3,2-Dioxaborolane, 2-[(1Z,3E)-1-(dimethylphenylsilyl)-1,3-decadien-1-yl]-
     4,4,5,5-tetramethyl-
MF   C24 H39 B O2 Si

Double bond geometry as shown.

```
             Me    Me
              \   /
         Ph—Si
   Me    O    |   Z      E
     \   |    C═       (CH2)5
      \ B—       \    /       \
     / |          ═══          Me
   Me  O
   Me  |
       Me
```

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

IN   9-Oxa-10-borabicyclo[3.3.2]decane,
     10-[(1Z)-2-phenyl-1-(trimethylsilyl)ethenyl]-
MF   C19 H29 B O Si

Double bond geometry as shown.
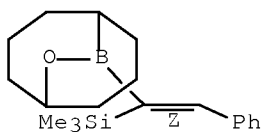
```
        O—B
            \
   Me3Si    Z    Ph
```
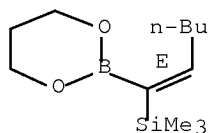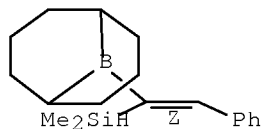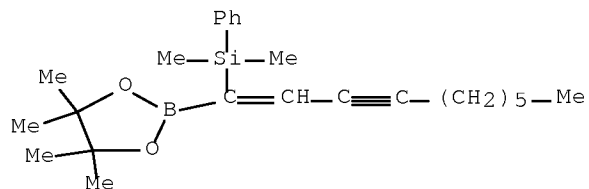
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   1,2,4,3,5-Trithiadiborolane, 3,5-bis[1,2-bis(trimethylsilyl)ethenyl]-,
      (Z,Z)- (9CI)
MF   C16 H38 B2 S3 Si4

Double bond geometry as shown.
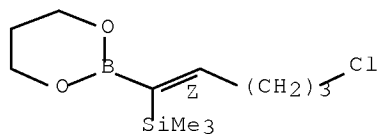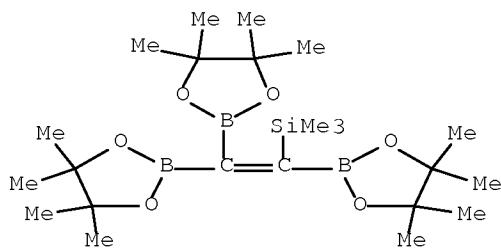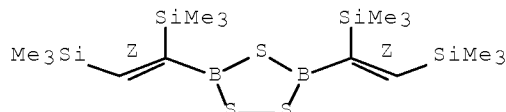

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   110 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   1,3,2-Benzodioxaborole, 2-[1-(trimethylsilyl)-1-hexenyl]-, (Z)- (9CI)
MF   C15 H23 B O2 Si

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>
Connection closed by remote host

Connecting via Winsock to STN

Welcome to STN International! Enter x:X

* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

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                  information
 NEWS 6 APR 26 USPATFULL and USPAT2 enhanced with patent
                  assignment/reassignment information
 NEWS 7 APR 28 CAS patent authority coverage expanded
 NEWS 8 APR 28 ENCOMPLIT/ENCOMPLIT2 search fields enhanced
 NEWS 9 APR 28 Limits doubled for structure searching in CAS
                  REGISTRY
 NEWS 10 MAY 08 STN Express, Version 8.4, now available
 NEWS 11 MAY 11 STN on the Web enhanced
 NEWS 12 MAY 11 BEILSTEIN substance information now available on
                  STN Easy
 NEWS 13 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased
                  limits for exact sequence match searches and
                  introduction of free HIT display format
 NEWS 14 MAY 15 INPADOCDB and INPAFAMDB enhanced with Chinese legal
                  status data
 NEWS 15 MAY 28 CAS databases on STN enhanced with NANO super role in
                  records back to 1992
 NEWS 16 JUN 01 CAS REGISTRY Source of Registration (SR) searching
                  enhanced on STN
 NEWS 17 JUN 25 NUTRACEUT and PHARMAML discontinued

 NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
 ___   AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:15:09 ON 25 JUN 2009

=> d his

    (FILE 'HOME' ENTERED AT 16:15:09 ON 25 JUN 2009)

```
=> FILE REGISTRY
COST IN U.S. DOLLARS                         SINCE FILE      TOTAL
                                             ENTRY    SESSION
FULL ESTIMATED COST                            3.30      3.30

FILE 'REGISTRY' ENTERED AT 16:24:08 ON 25 JUN 2009
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES:   24 JUN 2009  HIGHEST RN 1159883-39-2
DICTIONARY FILE UPDATES:  24 JUN 2009  HIGHEST RN 1159883-39-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

__REGISTRY includes numerically searchable data for experimental and
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experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html
```

=>
Uploading C:¥TDH PTA¥Application Examination¥Series 10¥10 544211¥STN¥STN 10 544211
052509AD.str

chain nodes :
2 3 4 5 6 7 11 12 13 14 15 16
ring/chain nodes :
1 8 9 10 17 18
chain bonds :
1-2 1-8 1-9 2-3 2-4 3-5 3-6 3-7 10-11 10-17 10-18 11-12 11-13 12-14 12-15
12-16
exact bonds :
1-2 1-8 1-9 2-3 2-4 3-5 3-6 3-7 10-11 10-17 10-18 11-12 11-13 12-14 12-15
12-16

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
18:CLASS
fragments assigned product role:
containing 1
fragments assigned reactant/reagent role:
containing 10

L1   STRUCTURE UPLOADED
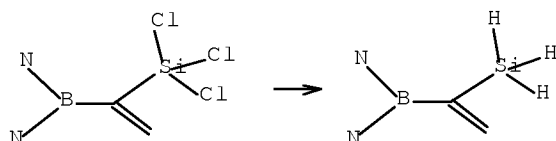
=> D
L1 HAS NO ANSWERS
L1   STR

Structure attributes must be viewed using STN Express query preparation.

=> S L1
SAMPLE SEARCH INITIATED 16:29:50 FILE 'CASREACT'
SCREENING COMPLETE -   0 REACTIONS TO VERIFY FROM   0 DOCUMENTS

100.0% DONE   0 VERIFIED   0 HIT RXNS   0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                    BATCH   **COMPLETE**
PROJECTED VERIFICATIONS: 0 TO   0
PROJECTED ANSWERS: 0 TO   0

L2   0 SEA SSS SAM L1 (0 REACTIONS)

=> S L2 SSS FULL
FULL SEARCH INITIATED 16:29:59 FILE 'CASREACT'
SCREENING COMPLETE -   0 REACTIONS TO VERIFY FROM   0 DOCUMENTS

100.0% DONE   0 VERIFIED   0 HIT RXNS   0 DOCS
SEARCH TIME: 00.00.01

L3   0 SEA SSS FUL L1 (0 REACTIONS)

=> FILE STNG
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                            ENTRY   SESSION
FULL ESTIMATED COST   123.61   131.23

FILE 'STNGUIDE' ENTERED AT 16:30:24 ON 25 JUN 2009
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=> FILE CASREACT
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                              ENTRY   SESSION
FULL ESTIMATED COST   0.07   131.30

FILE 'CASREACT' ENTERED AT 16:31:11 ON 25 JUN 2009
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FILE CONTENT:1840 - 21 Jun 2009 VOL 150 ISS 26

New CAS Information Use Policies, enter HELP USAGETERMS for details.

****
*   *
*   CASREACT now has more than 16.5 million reactions   *
*   *
****

CASREACT contains reactions from CAS and from: ZIC/VINITI database
(1974-1999) provided by InfoChem; INPI data prior to 1986;
Biotransformations database compiled under the direction of
Professor Dr. Klaus Kieslich; organic reactions, portions copyright
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This file contains CAS Registry Numbers for easy and accurate substance
identification.

=>
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052509AE.str

chain nodes :
2 3 4 5 6 7 11 12 13 14 15 16
ring/chain nodes :
1 8 9 10 17 18
chain bonds :
1-2 1-8 1-9 2-3 2-4 3-5 3-6 3-7 10-11 10-17 10-18 11-12 11-13 12-14 12-15
12-16
exact/norm bonds :
1-8 1-9 10-17 10-18
exact bonds :
1-2 2-3 2-4 3-5 3-6 3-7 10-11 11-12 11-13 12-14 12-15 12-16

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
18:CLASS
fragments assigned product role:
containing 1
fragments assigned reactant/reagent role:
containing 10

L4   STRUCTURE UPLOADED

=> D
L4 HAS NO ANSWERS
L4   STR

Structure attributes must be viewed using STN Express query preparation.
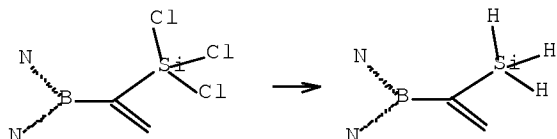
=> S
ENTER LOGIC EXPRESSION, QUERY NAME, OR (END):L4
SAMPLE SEARCH INITIATED 16:31:33 FILE 'CASREACT'
SCREENING COMPLETE –   0 REACTIONS TO VERIFY FROM   0 DOCUMENTS

```
100.0% DONE        0 VERIFIED        0 HIT RXNS                    0 DOCS
SEARCH TIME: 00.00.01


FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                    BATCH   **COMPLETE**
PROJECTED VERIFICATIONS:         0 TO        0
PROJECTED ANSWERS:               0 TO        0


L5             0 SEA SSS SAM L4 (     0 REACTIONS)

=> S L4 SSS FULL
FULL SEARCH INITIATED 16:31:46 FILE 'CASREACT'
SCREENING COMPLETE -       0 REACTIONS TO VERIFY FROM       0 DOCUMENTS


100.0% DONE        0 VERIFIED        0 HIT RXNS                    0 DOCS
SEARCH TIME: 00.00.01


L6             0 SEA SSS FUL L4 (     0 REACTIONS)

=> FILE STNGUIDE
COST IN U.S. DOLLARS                           SINCE FILE      TOTAL
                                               ENTRY     SESSION
FULL ESTIMATED COST                            123.13     254.43


FILE 'STNGUIDE' ENTERED AT 16:31:54 ON 25 JUN 2009
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=> FILE CASREACT
COST IN U.S. DOLLARS                           SINCE FILE      TOTAL
                                               ENTRY     SESSION
FULL ESTIMATED COST                            0.84     255.27


FILE 'CASREACT' ENTERED AT 16:39:15 ON 25 JUN 2009
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*****************************************************************
*                                                             *
*    CASREACT now has more than 16.5 million reactions     *
*                                                             *
*****************************************************************


CASREACT contains reactions from CAS and from: ZIC/VINITI database
(1974-1999) provided by InfoChem; INPI data prior to 1986;
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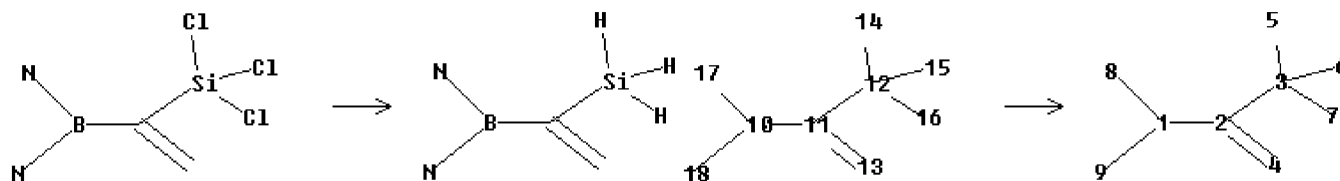
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chain nodes :
2 3 4 5 6 7 11 12 13 14 15 16
ring/chain nodes :
1 8 9 10 17 18
chain bonds :
1-2 1-8 1-9 2-3 2-4 3-5 3-6 3-7 10-11 10-17 10-18 11-13 12-16 12-14 12-15
12-13
exact/norm bonds :
1-8 1-9 10-17 10-18
exact bonds :
1-2 2-3 2-4 3-5 3-6 3-7 10-11 11-13 12-16 12-14 12-15 12-13

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
18:CLASS
fragments assigned product role:
containing 1
fragments assigned reactant/reagent role:
containing 10

L7   STRUCTURE UPLOADED

=> D
L7 HAS NO ANSWERS
L7   STR

Structure attributes must be viewed using STN Express query preparation.

```
=> S L7
SAMPLE SEARCH INITIATED 16:39:35 FILE 'CASREACT'
SCREENING COMPLETE -        0 REACTIONS TO VERIFY FROM        0 DOCUMENTS


100.0% DONE       0 VERIFIED       0 HIT RXNS                    0 DOCS
SEARCH TIME: 00.00.01


FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED VERIFICATIONS:          0 TO         0
PROJECTED ANSWERS:                0 TO         0


L8          0 SEA SSS SAM L7 (     0 REACTIONS)

=> S L7 SSS FULL
FULL SEARCH INITIATED 16:39:42 FILE 'CASREACT'
SCREENING COMPLETE -        0 REACTIONS TO VERIFY FROM        0 DOCUMENTS


100.0% DONE       0 VERIFIED       0 HIT RXNS                    0 DOCS
SEARCH TIME: 00.00.01


L9          0 SEA SSS FUL L7 (     0 REACTIONS)

=> FILE STNG
COST IN U.S. DOLLARS                         SINCE FILE     TOTAL
                                             ENTRY     SESSION
FULL ESTIMATED COST                           123.13     378.40

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=> FILE CASREACT
COST IN U.S. DOLLARS                         SINCE FILE     TOTAL
                                             ENTRY     SESSION
FULL ESTIMATED COST                            0.14     378.54

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*****************************************************************
*                                                               *
*     CASREACT now has more than 16.5 million reactions     *
*                                                               *
*****************************************************************
```
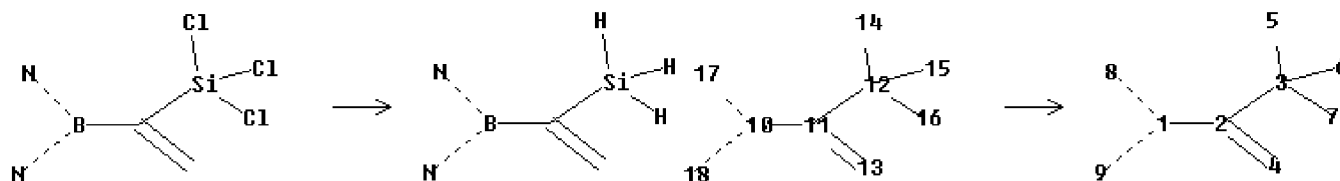
This file contains CAS Registry Numbers for easy and accurate substance
identification.

=>
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062509AG.str

chain nodes :
2 3 4 5 6 7
ring/chain nodes :
1 8 9
chain bonds :
1-2 1-8 1-9 2-4 3-7 3-5 3-6 3-4
exact/norm bonds :
1-8 1-9
exact bonds :
1-2 2-4 3-7 3-5 3-6 3-4

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
fragments assigned reactant/reagent role:
containing 1

L10   STRUCTURE UPLOADED

=> D
L10 HAS NO ANSWERS
L10   STR
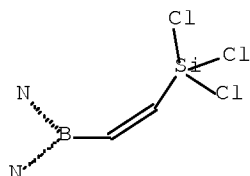
Structure attributes must be viewed using STN Express query preparation.

=> S L10
SAMPLE SEARCH INITIATED 16:41:27 FILE 'CASREACT'
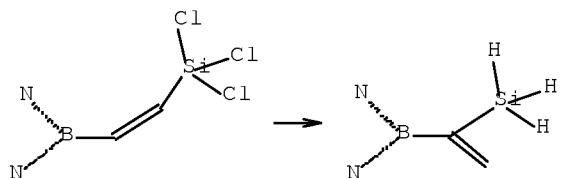SCREENING COMPLETE -   11 REACTIONS TO VERIFY FROM   2 DOCUMENTS

100.0% DONE   11 VERIFIED   0 HIT RXNS   0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED VERIFICATIONS: 22 TO   418
PROJECTED ANSWERS: 0 TO   0

L11   0 SEA SSS SAM L10 (0 REACTIONS)

=> S L11 SSS FUL
FULL SEARCH INITIATED 16:41:34 FILE 'CASREACT'
SCREENING COMPLETE -   276 REACTIONS TO VERIFY FROM   12 DOCUMENTS

100.0% DONE   276 VERIFIED   0 HIT RXNS   0 DOCS
SEARCH TIME: 00.00.01

L12   0 SEA SSS FUL L10 (0 REACTIONS)

=> S L11 SSS FULL
FULL SEARCH INITIATED 16:41:40 FILE 'CASREACT'
SCREENING COMPLETE -   276 REACTIONS TO VERIFY FROM   12 DOCUMENTS

100.0% DONE   276 VERIFIED   0 HIT RXNS   0 DOCS
SEARCH TIME: 00.00.01

L13   0 SEA SSS FUL L10 (0 REACTIONS)

=> FILE STNG
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                              ENTRY   SESSION
FULL ESTIMATED COST   245.78   624.32

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=> FILE CASREACT
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                              ENTRY   SESSION
FULL ESTIMATED COST   0.07   624.39

FILE 'CASREACT' ENTERED AT 16:42:42 ON 25 JUN 2009
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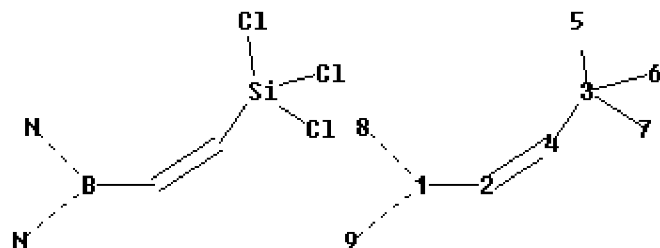New CAS Information Use Policies, enter HELP USAGETERMS for details.

```
*****************************************************************
*                                                               *
*      CASREACT now has more than 16.5 million reactions      *
*                                                               *
*****************************************************************
```

CASREACT contains reactions from CAS and from: ZIC/VINITI database
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identification.

```
=>
```
Uploading C:¥TDH PTA¥Application Examination¥Series 10¥10 544211¥STN¥STN 10 544211
062509AH.str

chain nodes :
2 3 4 5 6 7
ring/chain nodes :
1
chain bonds :
1-2 2-4 3-7 3-5 3-6 3-4
exact bonds :
1-2 2-4 3-7 3-5 3-6 3-4

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS
fragments assigned reactant/reagent role:
containing 1

L14   STRUCTURE UPLOADED

=> D
L14 HAS NO ANSWERS
L14   STR

Cl
|
Si—Cl
|
Cl

B
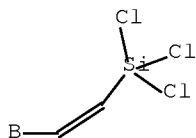
Structure attributes must be viewed using STN Express query preparation.

=> S L14
SAMPLE SEARCH INITIATED 16:42:57 FILE 'CASREACT'
SCREENING COMPLETE -   28 REACTIONS TO VERIFY FROM   3 DOCUMENTS

100.0% DONE   28 VERIFIED   0 HIT RXNS   0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED VERIFICATIONS: 243 TO   877
PROJECTED ANSWERS: 0 TO   0

L15   0 SEA SSS SAM L14 (0 REACTIONS)

=> S L14 SSS FULL
FULL SEARCH INITIATED 16:43:09 FILE 'CASREACT'
SCREENING COMPLETE -   1062 REACTIONS TO VERIFY FROM   35 DOCUMENTS

100.0% DONE   1062 VERIFIED   0 HIT RXNS   0 DOCS
SEARCH TIME: 00.00.02

L16   0 SEA SSS FUL L14 (0 REACTIONS)

=> FILE STNG
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                   ENTRY   SESSION
FULL ESTIMATED COST   123.13   747.52

FILE 'STNGUIDE' ENTERED AT 16:43:21 ON 25 JUN 2009
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=> FILE CASREACT
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                   ENTRY   SESSION
FULL ESTIMATED COST   0.21   747.73

FILE 'CASREACT' ENTERED AT 16:45:04 ON 25 JUN 2009
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FILE CONTENT:1840 - 21 Jun 2009 VOL 150 ISS 26

New CAS Information Use Policies, enter HELP USAGETERMS for details.

```
***************************************************************
*                                                             *
*     CASREACT now has more than 16.5 million reactions     *
*                                                             *
***************************************************************
```

CASREACT contains reactions from CAS and from: ZIC/VINITI database
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identification.

```
=>
Uploading C:¥TDH PTA¥Application Examination¥Series 10¥10 544211¥STN¥STN 10 544211
062509AI.str
```



```
chain nodes :
3  5  6  7
ring/chain nodes :
1  2  4
chain bonds :
1-2  2-4  3-7  3-5  3-6  3-4
exact/norm bonds :
2-4
exact bonds :
1-2  3-7  3-5  3-6  3-4
```

```
Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS
fragments assigned reactant/reagent role:
containing 1
```

```
L17    STRUCTURE UPLOADED

=> D
L17 HAS NO ANSWERS
L17              STR
```
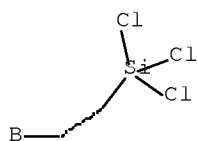
Structure attributes must be viewed using STN Express query preparation.

=> S LL17
L18   0 LL17

=> S L17
SAMPLE SEARCH INITIATED 16:45:24 FILE 'CASREACT'
SCREENING COMPLETE -   28 REACTIONS TO VERIFY FROM   3 DOCUMENTS

100.0% DONE   28 VERIFIED   0 HIT RXNS   0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED VERIFICATIONS: 243 TO   877
PROJECTED ANSWERS: 0 TO   0

L19   0 SEA SSS SAM L17 (0 REACTIONS)

=> S L17 SSS FULL
FULL SEARCH INITIATED 16:45:31 FILE 'CASREACT'
SCREENING COMPLETE -   1062 REACTIONS TO VERIFY FROM   35 DOCUMENTS

100.0% DONE   1062 VERIFIED   0 HIT RXNS   0 DOCS
SEARCH TIME: 00.00.01

L20   0 SEA SSS FUL L17 (0 REACTIONS)

=> FILE STNG
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                               ENTRY   SESSION
FULL ESTIMATED COST   125.24   872.97

FILE 'STNGUIDE' ENTERED AT 16:45:41 ON 25 JUN 2009
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___
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=> FILE CASREACT
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                               ENTRY   SESSION
FULL ESTIMATED COST   0.14   873.11

FILE 'CASREACT' ENTERED AT 16:46:43 ON 25 JUN 2009
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FILE CONTENT:1840 - 21 Jun 2009 VOL 150 ISS 26

New CAS Information Use Policies, enter HELP USAGETERMS for details.

```
****************************************************************
*                                                              *
*     CASREACT now has more than 16.5 million reactions    *
*                                                              *
****************************************************************
```

CASREACT contains reactions from CAS and from: ZIC/VINITI database
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identification.

=>

=>

=>

Uploading C:¥TDH PTA¥Application Examination¥Series 10¥10 544211¥STN¥STN 10 544211
062509AJ.str

chain nodes :
3 5 6 7
ring/chain nodes :
1 2 4
chain bonds :
1-2 2-4 3-7 3-5 3-6 3-4
exact/norm bonds :
2-4
exact bonds :
1-2 3-7 3-5 3-6 3-4

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS
fragments assigned reactant/reagent role:
containing 1

L21   STRUCTURE UPLOADED

=> D
L21 HAS NO ANSWERS
L21   STR

Structure attributes must be viewed using STN Express query preparation.

=> S L21
SAMPLE SEARCH INITIATED 16:46:59 FILE 'CASREACT'
SCREENING COMPLETE -   125 REACTIONS TO VERIFY FROM   4 DOCUMENTS

100.0% DONE   125 VERIFIED   0 HIT RXNS   0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                  BATCH   **COMPLETE**

```
PROJECTED VERIFICATIONS:        1830 TO     3170
PROJECTED ANSWERS:                 0 TO        0

L22         0 SEA SSS SAM L21 (     0 REACTIONS)

=> DEL HIS
DELETE ALL L# ITEMS? (Y)/N:Y

=>
Uploading C:¥TDH PTA¥Application Examination¥Series 10¥10 544211¥STN¥STN 10 544211
062509AJ.str
```
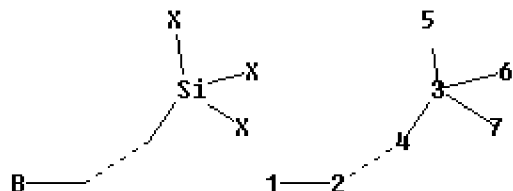


```
chain nodes :
3  5  6  7
ring/chain nodes :
1  2  4
chain bonds :
1-2  2-4  3-7  3-5  3-6  3-4
exact/norm bonds :
2-4
exact bonds :
1-2  3-7  3-5  3-6  3-4



Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS
fragments assigned reactant/reagent role:
containing 1




L1       STRUCTURE UPLOADED

=> D
L1 HAS NO ANSWERS
L1             STR
```
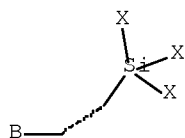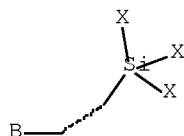


```
Structure attributes must be viewed using STN Express query preparation.


=> S L1
SAMPLE SEARCH INITIATED 16:47:37 FILE 'CASREACT'
SCREENING COMPLETE -     125 REACTIONS TO VERIFY FROM      4 DOCUMENTS
```

```
100.0% DONE     125 VERIFIED       0 HIT RXNS                    0 DOCS
SEARCH TIME: 00.00.01


FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED VERIFICATIONS:       1830 TO     3170
PROJECTED ANSWERS:                0 TO        0


L2           0 SEA SSS SAM L1 (     0 REACTIONS)

=> S L1 SSS FULL
FULL SEARCH INITIATED 16:47:53 FILE 'CASREACT'
SCREENING COMPLETE -    2892 REACTIONS TO VERIFY FROM     149 DOCUMENTS


100.0% DONE    2892 VERIFIED       0 HIT RXNS                    0 DOCS
SEARCH TIME: 00.00.02


L3           0 SEA SSS FUL L1 (     0 REACTIONS)

=> FILE STNG
COST IN U.S. DOLLARS                           SINCE FILE      TOTAL
                                               ENTRY     SESSION
FULL ESTIMATED COST                            123.61     996.72


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=> FILE CASREACT
COST IN U.S. DOLLARS                           SINCE FILE      TOTAL
                                               ENTRY     SESSION
FULL ESTIMATED COST                            0.35     997.07


FILE 'CASREACT' ENTERED AT 16:51:11 ON 25 JUN 2009
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FILE CONTENT:1840 - 21 Jun 2009 VOL 150 ISS 26

New CAS Information Use Policies, enter HELP USAGETERMS for details.

****************************************************************
*                                                              *
*    CASREACT now has more than 16.5 million reactions    *
*                                                              *
****************************************************************


CASREACT contains reactions from CAS and from: ZIC/VINITI database
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```
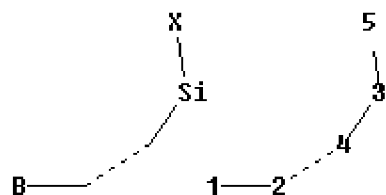
This file contains CAS Registry Numbers for easy and accurate substance
identification.

```
=>
Uploading C:¥TDH PTA¥Application Examination¥Series 10¥10 544211¥STN¥STN 10 544211
062509AK.str
```

```
      X            5
       \            \
       Si            3
         \          /
          \        4
           \      /
B————        1———2
```

```
chain nodes :
3  5
ring/chain nodes :
1  2  4
chain bonds :
1-2  2-4  3-4  3-5
exact/norm bonds :
2-4
exact bonds :
1-2  3-4  3-5
```

```
Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS
fragments assigned reactant/reagent role:
containing 1
```

```
L4       STRUCTURE UPLOADED

=> D
L4 HAS NO ANSWERS
L4              STR
```

```
       X
        \
        Si
          \
B————
```
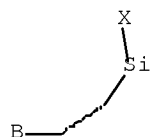
Structure attributes must be viewed using STN Express query preparation.

```
=> S L4
SAMPLE SEARCH INITIATED 16:51:31 FILE 'CASREACT'
SCREENING COMPLETE –     344 REACTIONS TO VERIFY FROM      16 DOCUMENTS

100.0% DONE    344 VERIFIED     45 HIT RXNS                  2 DOCS
SEARCH TIME: 00.00.01
```

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED VERIFICATIONS: 5768 TO   7992
PROJECTED ANSWERS: 2 TO   124

L5   2 SEA SSS SAM L4 (45 REACTIONS)

=> D SCAN

L5   2 ANSWERS   CASREACT COPYRIGHT 2009 ACS on STN

TI   Synthesis of various boron-containing disilanes

RX(27) OF 79

PhMgBr, Et2O

59%
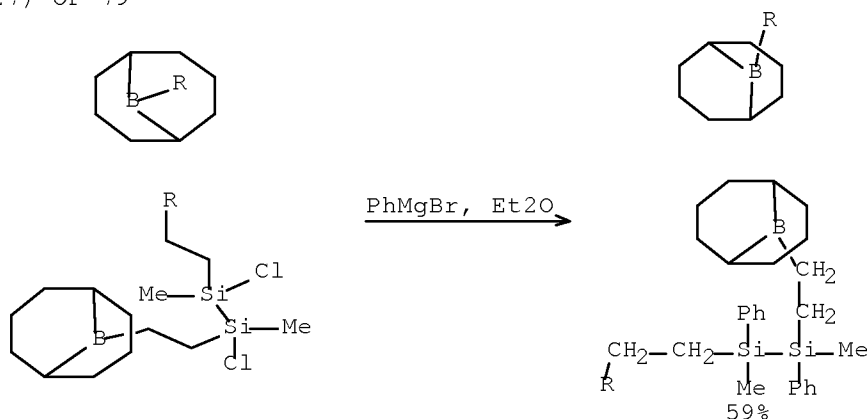
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5   2 ANSWERS   CASREACT COPYRIGHT 2009 ACS on STN

TI   Boron compounds. 80. 2,5-Dihydro-1,2,5-thiasilaboroles. Preparation and
     complexations

RX(1) OF 62

Li2S, PhMe

84%
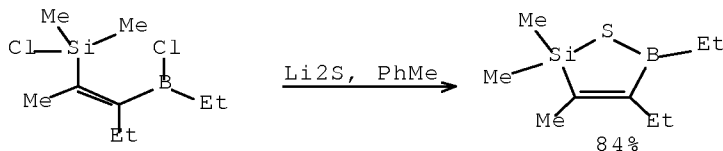
ALL ANSWERS HAVE BEEN SCANNED

=> S L4 SSS FULL
FULL SEARCH INITIATED 16:52:10 FILE 'CASREACT'
SCREENING COMPLETE -   5413 REACTIONS TO VERIFY FROM   276 DOCUMENTS

100.0% DONE   5413 VERIFIED   121 HIT RXNS   11 DOCS
SEARCH TIME: 00.00.02

L6   ANSWER 1 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

RX(2) OF 7

$$Me_2N-CH_2 \quad \cdots \quad + \quad B(Et)_2 \quad \xrightarrow{\text{Water, THF}}$$

HCl

H^+
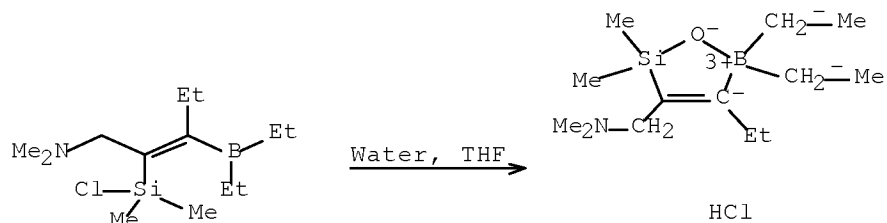
REF: Applied Organometallic Chemistry, 21(8), 676-681; 2007
CON: STAGE(1) room temperature -> -78 deg C;
       -78 deg C -> room temperature

L6   ANSWER 2 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

RX(7) OF 34

$$\xrightarrow{\text{Et2NH, Et3N, Hexane}}$$

66%
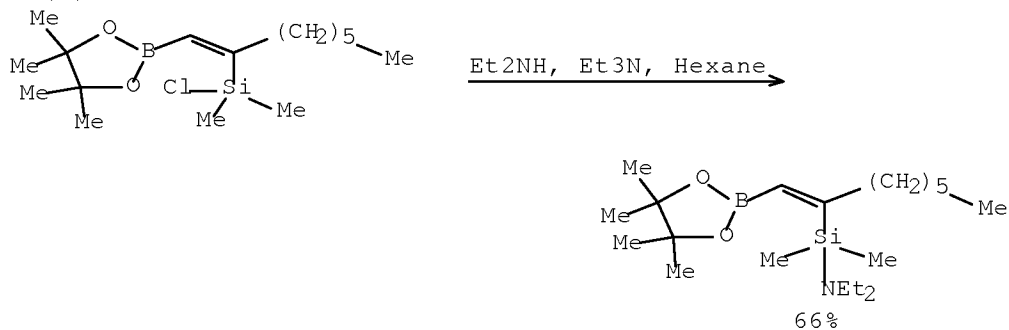
REF: Journal of the American Chemical Society, 130(5), 1526-1527;
       2008
CON: 3 days, room temperature

L6   ANSWER 3 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

PhMgBr, Et2O
→

59%
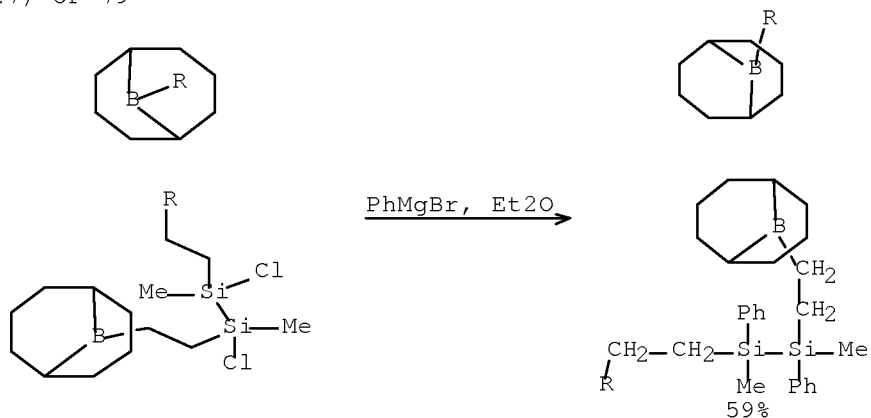
REF: Silicon Chemistry, 2(5/6), 255-264;   2005
CON: 5 hours, reflux

L6   ANSWER 4 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

Na+

Na

PhMe
→

2%   49%
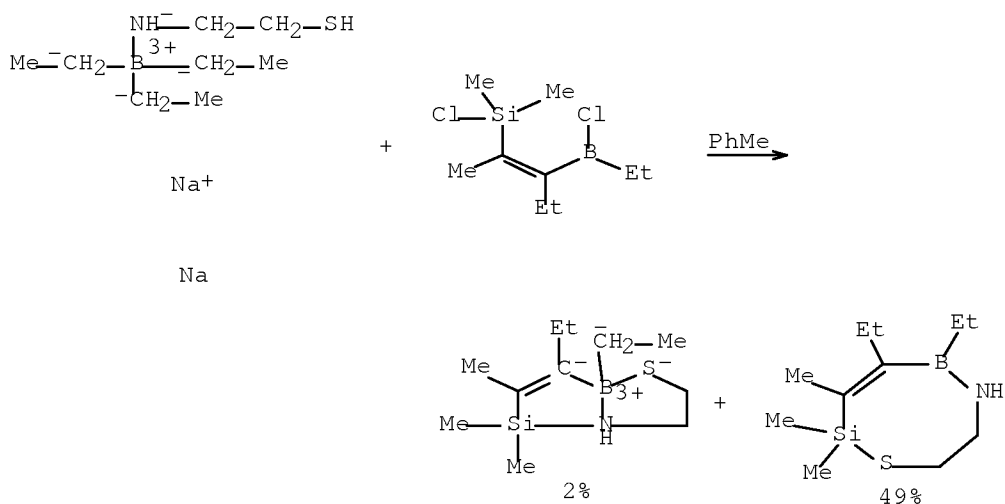
REF: Zeitschrift fuer Naturforschung, B: Chemical Sciences, 50(6),
       959-68; 1995
NOTE: other product(s) also detected

L6   ANSWER 5 OF 11 CASREACT COPYRIGHT 2009 ACS on STN
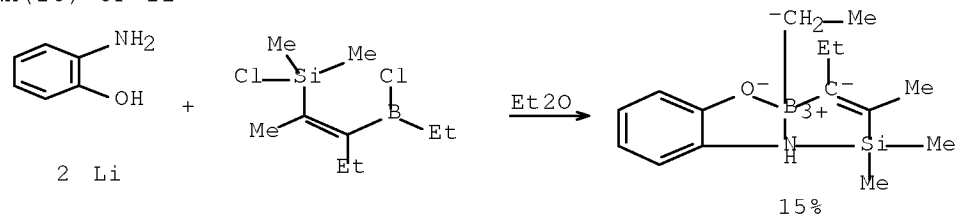
REF: Chemische Berichte, 123(12), 2287-301;   1990

L6   ANSWER 6 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

68%

68%
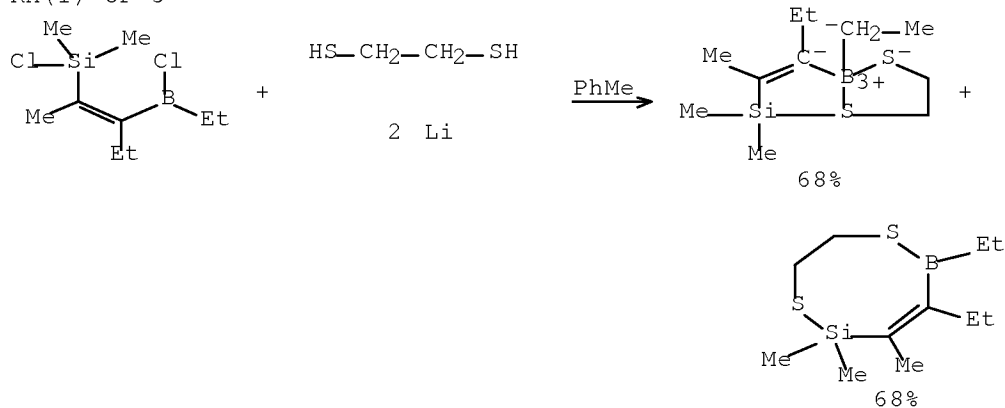
REF: Chemische Berichte, 123(11), 2109-16;   1990

L6   ANSWER 7 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

MeLi, Et2O

67%

REF: Zeitschrift fuer Naturforschung, B: Chemical Sciences, 44(10), 1179-86;   1989
NOTE: Petroleum ether solvent

L6   ANSWER 8 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

Me   Me   NMe2
Cl—Si—Cl   LiNMe2, PhMe   Me—Si—Me   NMe2
  B   ————————————————————>   B
Me   Et   Me   Et
   Et   Et
                                        70%
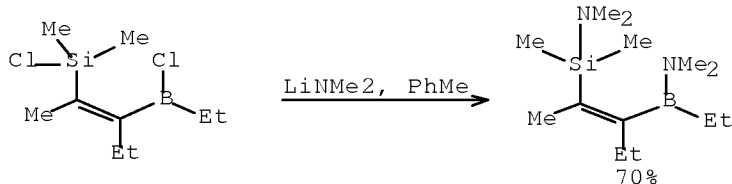
REF: Chemische Berichte, 122(10), 1825-50; 1989

L6   ANSWER 9 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

  Me   Me   Me   Se
Cl—Si—Cl   Na2Se, (CH2OMe)2   Me—Si   B—Et
    B   ————————————————>   Me   Et
Me   Et   Me   Et
   Et   76%
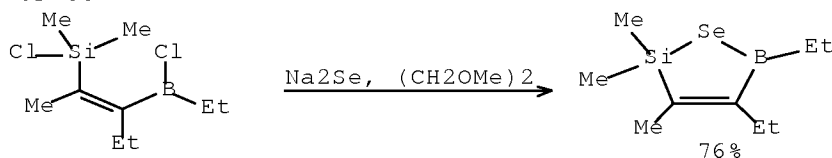
REF: Chemische Berichte, 121(11), 1955-66; 1988

L6   ANSWER 10 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

RX(2) OF 45 - REACTION DIAGRAM NOT AVAILABLE

L6   ANSWER 11 OF 11 CASREACT COPYRIGHT 2009 ACS on STN

=> FILE CASREACT
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                        ENTRY   SESSION
FULL ESTIMATED COST   159.97   1157.04

FILE 'CASREACT' ENTERED AT 16:59:49 ON 25 JUN 2009
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FILE CONTENT:1840 - 21 Jun 2009 VOL 150 ISS 26

New CAS Information Use Policies, enter HELP USAGETERMS for details.

* *
*   *
*   CASREACT now has more than 16.5 million reactions   *
*   *
* *

chain nodes :
2 4 5 6 9 10 11 12
ring/chain nodes :
1 3 7 8
chain bonds :
1-3 2-3 2-4 2-5 2-6 7-8 7-9 9-10 9-11 9-12
exact bonds :
1-3 2-3 2-4 2-5 2-6 7-8 7-9 9-10 9-11 9-12

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS
fragments assigned product role:
containing 7
fragments assigned reactant/reagent role:
containing 1
node mappings:
1:7 1:7

L7   STRUCTURE UPLOADED
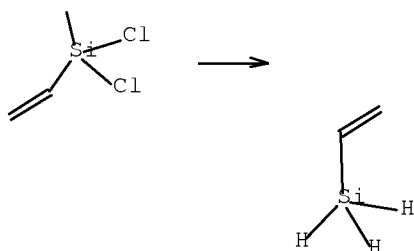
=>   D
L7 HAS NO ANSWERS
L7   STR

Structure attributes must be viewed using STN Express query preparation.

=> S L7
SAMPLE SEARCH INITIATED 17:00:13 FILE 'CASREACT'
SCREENING COMPLETE -   294 REACTIONS TO VERIFY FROM   29 DOCUMENTS

100.0% DONE   294 VERIFIED   0 HIT RXNS   0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED VERIFICATIONS: 4852 TO   6908
PROJECTED ANSWERS: 0 TO   0

L8   0 SEA SSS SAM L7 (0 REACTIONS)

=> S L7 SSS FULL
FULL SEARCH INITIATED 17:00:22 FILE 'CASREACT'
SCREENING COMPLETE -   7559 REACTIONS TO VERIFY FROM   637 DOCUMENTS

100.0% DONE   7559 VERIFIED   0 HIT RXNS   0 DOCS
SEARCH TIME: 00.00.04

L9   0 SEA SSS FUL L7 (0 REACTIONS)

=> FILE STNG
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                              ENTRY   SESSION
FULL ESTIMATED COST   123.13   1280.17

FILE 'STNGUIDE' ENTERED AT 17:00:40 ON 25 JUN 2009
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=> FILE CASREACT
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                              ENTRY   SESSION
FULL ESTIMATED COST   0.14   1280.31

FILE 'CASREACT' ENTERED AT 17:02:03 ON 25 JUN 2009
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FILE CONTENT:1840 - 21 Jun 2009 VOL 150 ISS 26

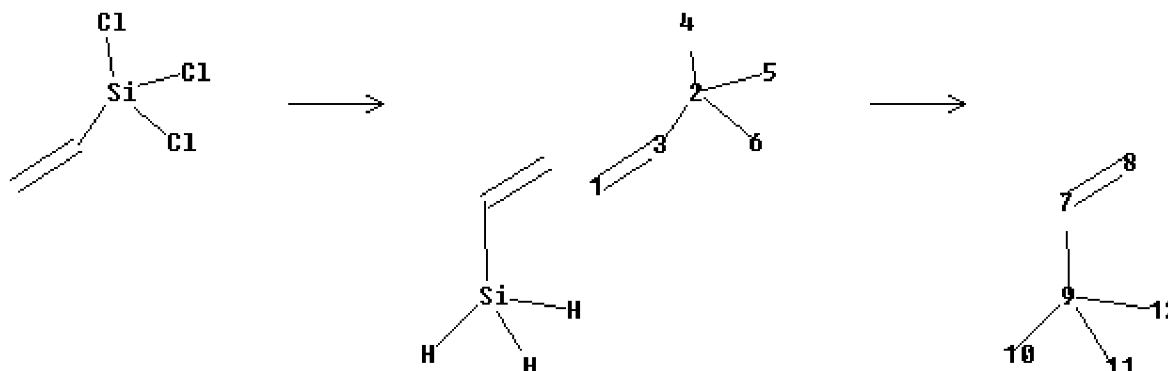New CAS Information Use Policies, enter HELP USAGETERMS for details.

****
*   *
*   CASREACT now has more than 16.5 million reactions   *
*   *

CASREACT contains reactions from CAS and from: ZIC/VINITI database
(1974-1999) provided by InfoChem; INPI data prior to 1986;
Biotransformations database compiled under the direction of
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This file contains CAS Registry Numbers for easy and accurate substance
identification.

=>
Uploading C:¥TDH PTA¥Application Examination¥Series 10¥10 544211¥STN¥STN 10 544211
062509AM.str

chain nodes :
2 4 5 6 9 10 11 12
ring/chain nodes :
1 3 7 8
chain bonds :
1-3 2-3 2-4 2-5 2-6 7-8 7-9 9-10 9-11 9-12
exact bonds :
1-3 2-3 2-4 2-5 2-6 7-8 7-9 9-10 9-11 9-12

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS
fragments assigned product role:
containing 7
fragments assigned reactant/reagent role:
containing 1

L10   STRUCTURE UPLOADED

=> D
L10 HAS NO ANSWERS
L10   STR

Cl
Cl
Si
Cl

⟶

Si
H
H
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Structure attributes must be viewed using STN Express query preparation.

=> S L10
SAMPLE SEARCH INITIATED 17:02:39 FILE 'CASREACT'
SCREENING COMPLETE -   294 REACTIONS TO VERIFY FROM   29 DOCUMENTS

100.0% DONE   294 VERIFIED   0 HIT RXNS   0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED VERIFICATIONS: 4852 TO   6908
PROJECTED ANSWERS: 0 TO   0

L11   0 SEA SSS SAM L10 (0 REACTIONS)

=> S L10 SSS FULL
FULL SEARCH INITIATED 17:02:54 FILE 'CASREACT'
SCREENING COMPLETE -   7559 REACTIONS TO VERIFY FROM   637 DOCUMENTS

100.0% DONE   7559 VERIFIED   3 HIT RXNS   3 DOCS
SEARCH TIME: 00.00.01

L12   3 SEA SSS FUL L10 (3 REACTIONS)

=> D L12

L12 ANSWER 1 OF 3 CASREACT COPYRIGHT 2009 ACS on STN
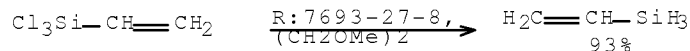
  RX(2) OF 2
          Cl_3Si—CH═CH_2 R:7693-27-8, H_2C═CH—SiH_3
                               (CH2OMe)2   93%
  REF: Ger., 4313130, 26 May 1994

=> D L12 1-3 BIB ABS HITSTR
'HITSTR' IS NOT A VALID FORMAT FOR FILE 'CASREACT'

The following are valid formats:

ABS -------- GI and AB
ALL -------- BIB, AB, IND, RE, Single-step Reactions

```
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
DALL -------- ALL, delimited (end of each field identified)
IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IND --------- Indexing data
IPC --------- International Patent Classifications
ISTD -------- STD, indented with text labels
OBIB --------- AN, plus Bibliographic Data (original)
OIBIB -------- OBIB, indented with text labels

SBIB --------- BIB, no citations
SIBIB -------- IBIB, no citations

MAX --------- Same as ALL
PATS -------- PI, SO
SCAN -------- TI and FCRD (random display, no answer number.  SCAN
              must be entered on the same line as DISPLAY, e.g.,
              D SCAN.)
SSRX -------- Single-Step Reactions (Map, Diagram, and Summary for
              all single-step reactions)
STD --------- BIB, IPC, and NCL

CRD --------- Compact Display of All Hit Reactions
CRDREF ------ Compact Reaction Display and SO, PY for Reference
FHIT -------- Reaction Map, Diagram, and Summary for first
              hit reaction
FHITCBIB ---- FHIT, AN plus CBIB
FCRD -------- First hit in Compact Reaction Display (CRD) format
FCRDREF ----- First hit in Compact Reaction Display (CRD) format with
              CA reference information (SO, PY).  (Default)
FPATH ------- PATH, plus Reaction Summary for the "long path"
FSPATH ------ SPATH, plus Reaction Summary for the "short path"
HIT --------- Reaction Map, Reaction Diagram, and Reaction
              Summary for all hit reactions and fields containing
              hit terms
OCC --------- All hit fields and the number of occurrences of the
              hit terms in each field.  Includes total number of
              HIT, PATH, SPATH reactions. Labels reactions that have
              incomplete verifications.
PATH -------- Reaction Map and Reaction Diagram for the "long
              path".  Displays all hit reactions, except those
              whose steps are totally included within another hit
              reaction which is displayed
RX ---------- Hit Reactions (Map, Diagram, Summary for all hit reactions)
RXG --------- Hit Reaction Graphics (Map and Diagram for all hit reactions)
RXL --------- Hit Reaction Long (Map, Diagram, Summary for all hit reactions)
RXS --------- Hit Reaction Summariers (Map and Summary for all hit reactions)
SPATH ------- Reaction Map and Reaction Diagram for the "short
              path".  Displays all single step reactions which
              contain a hit substance.  Also displays those
              multistep reactions that have a hit substance in both
              the first and last steps of the reaction, except for
              those hit reactions whose steps are totally included
              within another hit reaction which is displayed


To display a particular field or fields, enter the display field
```

codes. For a list of the display field codes, enter HELP DFIELDS
at an arrow prompt (=>). Examples of combinations include: D TI;
D BIB RX; D TI, AU, FCRD. The information is displayed in the same order
as the specification. All of the formats, except CRD, CRDREF, FHIT, PATH,
FPATH, SPATH, FSPATH, FCRD, FCRDREF, HIT, RX, RXG, RXS, SCAN, and OCC, may
be used with the DISPLAY command to display the record for a specified
Accession Number.

ENTER DISPLAY FORMAT (FCRDREF):S L10 SSS FULL
'S' IS NOT A VALID FORMAT FOR FILE 'CASREACT'

The following are valid formats:

ABS -------- GI and AB
ALL -------- BIB, AB, IND, RE, Single-step Reactions
APPS ------- AI, PRAI
BIB -------- AN, plus Bibliographic Data
CAN -------- List of CA abstract numbers without answer numbers
CBIB ------- AN, plus Compressed Bibliographic Data
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            whose steps are totally included within another hit
            reaction which is displayed
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            within another hit reaction which is displayed
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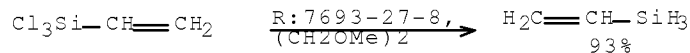
To display a particular field or fields, enter the display field
codes. For a list of the display field codes, enter HELP DFIELDS
at an arrow prompt (=>). Examples of combinations include: D TI;
D BIB RX; D TI, AU, FCRD. The information is displayed in the same order
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FPATH, SPATH, FSPATH, FCRD, FCRDREF, HIT, RX, RXG, RXS, SCAN, and OCC, may
be used with the DISPLAY command to display the record for a specified
Accession Number.

ENTER DISPLAY FORMAT (FCRDREF):
ENTER DISPLAY FORMAT (FCRDREF):FCRDREF

L12 ANSWER 1 OF 3 CASREACT COPYRIGHT 2009 ACS on STN

```
  RX(2) OF 2
            Cl3Si—CH═CH2    R:7693-27-8,    H2C═CH—SiH3
                            (CH2OMe)2                93%
  REF:  Ger., 4313130, 26 May 1994
```

L12 ANSWER 2 OF 3 CASREACT COPYRIGHT 2009 ACS on STN

```
  RX(3) OF 11
          Cl3Si⁓⁓SiMe3    Et2O    Me3Si⁓⁓SiH3
                                              51%
  REF:  Zeitschrift fuer Naturforschung, B:  Chemical Sciences, 42(12),
        1543-8;  1987
```

L12 ANSWER 3 OF 3 CASREACT COPYRIGHT 2009 ACS on STN

```
  RX(6) OF 13
        Me3Si⁓⁓SiMe3       Hexane    Me3Si⁓⁓SiH3
              SiCl3                          SiMe3
                                              51%
  REF:  Zeitschrift fuer Naturforschung, B:  Chemical Sciences, 42(2),
        142-6;  1987
```

=> S L12 1-2
MISSING OPERATOR L12 1-2
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> S L12
L13   3 L12

=> D L12 IBIB ABS HIT
YOU HAVE REQUESTED DATA FROM FILE 'CASREACT' - CONTINUE? (Y)/N:Y

L12 ANSWER 1 OF 3 CASREACT COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 121:57701 CASREACT Full-text
TITLE: Preparation of organosilanes from haloorganosilanes in
                       the presence of magnesium hydride and ether solvents
INVENTOR(S):   Klein, Klaus Dieter; Knott, Wilfried; Koerner, Goetz
PATENT ASSIGNEE(S):   Th. Goldschmidt AG, Germany

```
SOURCE:                 Ger., 4 pp.
                        CODEN: GWXXAW
DOCUMENT TYPE:          Patent
LANGUAGE:               German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE        APPLICATION NO.  DATE
     ---------------   ----  --------    ---------------  --------
     DE 4313130        C1    19940526    DE 1993-4313130  19930422
     EP 621280         A1    19941026    EP 1994-105523   19940409
     EP 621280         B1    19980819
         R:  BE, DE, FR, GB, IT, NL
     US 5455367        A     19951003    US 1994-229966   19940419
     JP 06321959       A     19941122    JP 1994-81892    19940420
     JP 2564096        B2    19961218
     CA 2121931        A1    19941023    CA 1994-2121931  19940422
     CA 2121931        C     19980616
PRIORITY APPLN. INFO.:               DE 1993-4313130  19930422
OTHER SOURCE(S):       MARPAT 121:57701
AB   Organosilanes (e.g., H2C:CHSiH3), contg. ≥1 SiH bond, are prepd. in high yield by
     reacting nonpyrophoric, storage MgH2 in an ether solvent (e.g., THF,
     1,2-dimethoxyethane) with an organosilicon halide (e.g., H2C:CHSiCl3) and
     continuously removing the formed Mg halide particles from the MgH2 surface by mech.
     means or ultrasonics.
REFERENCE COUNT:       7    THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
                            RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
```

RX(2) OF 2   E ===> F
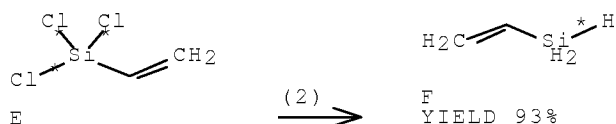

```
RX(2)     RCT  E 75-94-5
          RGT  C 7693-27-8 Magnesium hydride (MgH2)
          PRO  F 7291-09-0
          SOL  110-71-4 (CH2OMe)2


=> D L12 IBIB ABS HITSTR 1-3
YOU HAVE REQUESTED DATA FROM FILE 'CASREACT' - CONTINUE? (Y)/N:Y



'HITSTR' IS NOT A VALID FORMAT FOR FILE 'CASREACT'

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ALL -------- BIB, AB, IND, RE, Single-step Reactions
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BIB -------- AN, plus Bibliographic Data
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CBIB ------- AN, plus Compressed Bibliographic Data
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PATS ------- PI, SO
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             those hit reactions whose steps are totally included
             within another hit reaction which is displayed


To display a particular field or fields, enter the display field
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at an arrow prompt (=>).  Examples of combinations include: D TI;
D BIB RX; D TI, AU, FCRD.  The information is displayed in the same order
```

as the specification. All of the formats, except CRD, CRDREF, FHIT, PATH, FPATH, SPATH, FSPATH, FCRD, FCRDREF, HIT, RX, RXG, RXS, SCAN, and OCC, may be used with the DISPLAY command to display the record for a specified Accession Number.

ENTER DISPLAY FORMAT (FCRDREF):FCRDREF

L12 ANSWER 1 OF 3 CASREACT COPYRIGHT 2009 ACS on STN

  RX(2) OF 2
           $Cl_3Si-CH=CH_2$ $\xrightarrow[\text{(CH2OMe)2}]{\text{R:7693-27-8,}}$ $H_2C=CH-SiH_3$
                                                          93%
  REF: Ger., 4313130, 26 May 1994

L12 ANSWER 2 OF 3 CASREACT COPYRIGHT 2009 ACS on STN

  RX(3) OF 11
           Cl3Si‾‾SiMe3 $\xrightarrow{\text{Et2O}}$ Me3Si‾‾SiH3
                                                          51%
  REF: Zeitschrift fuer Naturforschung, B: Chemical Sciences, 42(12),
        1543-8; 1987

L12 ANSWER 3 OF 3 CASREACT COPYRIGHT 2009 ACS on STN

  RX(6) OF 13
           Me3Si‾‾SiMe3   Me3Si‾‾SiH3
                 SiCl3 $\xrightarrow{\text{Hexane}}$ SiMe3
                                                          51%
  REF: Zeitschrift fuer Naturforschung, B: Chemical Sciences, 42(2),
        142-6; 1987

=> FILE CAPLUS
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                               ENTRY   SESSION
FULL ESTIMATED COST   0.50   1436.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
                                               ENTRY   SESSION
CA SUBSCRIBER PRICE   0.00   -0.78

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FILE COVERS 1907 - 25 Jun 2009 VOL 150 ISS 26
FILE LAST UPDATED: 24 Jun 2009 (20090624/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2009

CAplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

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This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> S L12
L14   3 L12

=> D L14 1-3 IBIB ABS HITSTR

L14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1994:457701 CAPLUS Full-text
DOCUMENT NUMBER: 121:57701
ORIGINAL REFERENCE NO.: 121:10413a,10416a
TITLE: Preparation of organosilanes from haloorganosilanes in
                         the presence of magnesium hydride and ether solvents
INVENTOR(S):   Klein, Klaus Dieter; Knott, Wilfried; Koerner, Goetz
PATENT ASSIGNEE(S):   Th. Goldschmidt AG, Germany
SOURCE: Ger., 4 pp.
                         CODEN: GWXXAW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

     PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
     ---------------   ----   -------- --------------------   --------
     DE 4313130   C1   19940526 DE 1993-4313130   19930422
     EP 621280   A1   19941026 EP 1994-105523   19940409
     EP 621280   B1   19980819
        R: BE, DE, FR, GB, IT, NL
     US 5455367   A   19951003 US 1994-229966   19940419
     JP 06321959   A   19941122 JP 1994-81892   19940420
     JP 2564096   B2   19961218
     CA 2121931   A1   19941023 CA 1994-2121931   19940422
     CA 2121931   C   19980616
PRIORITY APPLN. INFO.:   DE 1993-4313130   A 19930422
OTHER SOURCE(S):   CASREACT 121:57701; MARPAT 121:57701
AB   Organosilanes (e.g., H2C:CHSiH3), contg. ≥1 SiH bond, are prepd. in high yield by
      reacting nonpyrophoric, storage MgH2 in an ether solvent (e.g., THF,
      1,2-dimethoxyethane) with an organosilicon halide (e.g., H2C:CHSiCl3) and
      continuously removing the formed Mg halide particles from the MgH2 surface by mech.
      means or ultrasonics.

REFERENCE COUNT: 7   THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
                             RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1989:154363 CAPLUS Full-text
DOCUMENT NUMBER: 110:154363
ORIGINAL REFERENCE NO.: 110:25535a,25538a
TITLE: Synthesis and spectroscopic characterization of di-
                         and trisilylethenes
AUTHOR(S):   Schmidbaur, H.; Ebenhoech, J.
CORPORATE SOURCE: Anorg.-Chem. Inst., Tech. Univ. Muenchen, Garching,
                         D-8046, Fed. Rep. Ger.
SOURCE: Zeitschrift fuer Naturforschung, B: Chemical Sciences
                         (1987), 42(12), 1543-8
                         CODEN: ZNBSEN; ISSN: 0932-0776
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S):   CASREACT 110:154363
AB   Di- and trisilylethenes have been prepd. by catalytic hydrosilylation of
      trimethylsilyl-, bis(trimethylsilyl)-, and bis(trichlorosilyl)ethyne and converted
      into the hydrogenated derivs. by LiAlH4-reduction The stereochem. of the products
      and the effects of substitution of Me vs. chlorine ligands on the NMR coupling consts.
      J(29Si/1H) have been investigated by anal. of selectively (Me)-decoupled 29Si NMR
      spectra. The catalytic hydrosilylation of silylated ethynes proceeds in a
      stereospecific syn fashion yielding trans adducts. Substitution of Me by chlorine
      at one or two Si-atoms in tris(trimethylsilyl)ethene leads to an increase of the
      coupling constant J(29Si/1H vinyl) with the chlorinated Si-atoms and reduces the
      values for those Si-Atoms, where Me groups are retained.

L14 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1988:21954 CAPLUS Full-text
DOCUMENT NUMBER: 108:21954
ORIGINAL REFERENCE NO.: 108:3731a,3734a
TITLE: Synthesis, properties, and structure of some
                         silylethenes
AUTHOR(S):   Schmidbaur, Hubert; Ebenhoech, Jan; Mueller, Gerhard
CORPORATE SOURCE: Anorg.-Chem. Inst., Tech. Univ. Muenchen, Garching,
                         D-8046, Fed. Rep. Ger.
SOURCE: Zeitschrift fuer Naturforschung, B: Chemical Sciences
                         (1987), 42(2), 142-6
                         CODEN: ZNBSEN; ISSN: 0932-0776
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S):   CASREACT 108:21954
AB   trans-1,2-Dichloro-1,2-bis(trichlorosilyl)ethene was prepd. from Cl3CSiCl3 and Cu
      powder, and its structure determined by single crystal X-ray diffraction.
      Cl3SiC.tplbond.CSiCl3 forms a Co cage cluster on reaction with Co2(CO)8 formulated
      as (CO)6Co2C2(SiCl3)2. Hydrosilylation with HSiCl3 gives
      tris(trichlorosilyl)ethene. Bis(trimethylsilyl)ethyne adds HSiCl3 to form
      1-(trichlorosilyl)-1,2-bis(trimethylsilyl)ethene, which can be converted into the
      hydride with (Me2CHCH2)2AlH. All compds. are model systems for CVD production of
      amoprhous silicon a-Si:C.

=> D L14 1-3 IBIB ABS HIT

L14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1994:457701 CAPLUS Full-text
DOCUMENT NUMBER: 121:57701
ORIGINAL REFERENCE NO.: 121:10413a,10416a
TITLE: Preparation of organosilanes from haloorganosilanes in
                         the presence of magnesium hydride and ether solvents
INVENTOR(S):   Klein, Klaus Dieter; Knott, Wilfried; Koerner, Goetz
PATENT ASSIGNEE(S):   Th. Goldschmidt AG, Germany
SOURCE: Ger., 4 pp.
                         CODEN: GWXXAW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

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     EP 621280   A1   19941026   EP 1994-105523   19940409
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        R: BE, DE, FR, GB, IT, NL
     US 5455367   A   19951003   US 1994-229966   19940419
     JP 06321959   A   19941122   JP 1994-81892   19940420
     JP 2564096   B2   19961218
     CA 2121931   A1   19941023   CA 1994-2121931   19940422
     CA 2121931   C   19980616
PRIORITY APPLN. INFO.:   DE 1993-4313130   A 19930422
OTHER SOURCE(S):   CASREACT 121:57701; MARPAT 121:57701

AB   Organosilanes (e.g., H2C:CHSiH3), contg. ≥1 SiH bond, are prepd. in high yield by
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      1,2-dimethoxyethane) with an organosilicon halide (e.g., H2C:CHSiCl3) and
      continuously removing the formed Mg halide particles from the MgH2 surface by mech.
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REFERENCE COUNT: 7   THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
                             RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
AN   1994:457701 CAPLUS Full-text
DN   121:57701
OREF 121:10413a,10416a

L14 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1989:154363 CAPLUS Full-text
DOCUMENT NUMBER: 110:154363
ORIGINAL REFERENCE NO.: 110:25535a,25538a
TITLE: Synthesis and spectroscopic characterization of di-
                         and trisilylethenes
AUTHOR(S):   Schmidbaur, H.; Ebenhoech, J.
CORPORATE SOURCE: Anorg.-Chem. Inst., Tech. Univ. Muenchen, Garching,
                         D-8046, Fed. Rep. Ger.
SOURCE: Zeitschrift fuer Naturforschung, B: Chemical Sciences
                         (1987), 42(12), 1543-8
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      J(29Si/1H) have been investigated by anal. of selectively (Me)-decoupled 29Si NMR
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AN   1989:154363 CAPLUS Full-text
DN   110:154363
OREF 110:25535a,25538a

L14 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1988:21954 CAPLUS Full-text
DOCUMENT NUMBER: 108:21954
ORIGINAL REFERENCE NO.: 108:3731a,3734a
TITLE: Synthesis, properties, and structure of some
                         silylethenes
AUTHOR(S):   Schmidbaur, Hubert; Ebenhoech, Jan; Mueller, Gerhard
CORPORATE SOURCE: Anorg.-Chem. Inst., Tech. Univ. Muenchen, Garching,
                         D-8046, Fed. Rep. Ger.
SOURCE: Zeitschrift fuer Naturforschung, B: Chemical Sciences
                         (1987), 42(2), 142-6
                         CODEN: ZNBSEN; ISSN: 0932-0776
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S):   CASREACT 108:21954
AB   trans-1,2-Dichloro-1,2-bis(trichlorosilyl)ethene was prepd. from Cl3CSiCl3 and Cu
      powder, and its structure determined by single crystal X-ray diffraction.
      Cl3SiC.tplbond.CSiCl3 forms a Co cage cluster on reaction with Co2(CO)8 formulated
      as (CO)6Co2C2(SiCl3)2. Hydrosilylation with HSiCl3 gives
      tris(trichlorosilyl)ethene. Bis(trimethylsilyl)ethyne adds HSiCl3 to form
      1-(trichlorosilyl)-1,2-bis(trimethylsilyl)ethene, which can be converted into the
      hydride with (Me2CHCH2)2AlH. All compds. are model systems for CVD production of
      amoprhous silicon a-Si:C.
AN   1988:21954 CAPLUS Full-text
DN   108:21954
OREF 108:3731a,3734a

=> FIL STNGUIDE
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                               ENTRY   SESSION
FULL ESTIMATED COST   19.00   1455.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE   TOTAL
                                               ENTRY   SESSION
CA SUBSCRIBER PRICE   -4.92   -5.70

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jun 19, 2009 (20090619/UP).

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SESSION CONTINUES IN FILE 'STNGUIDE'
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that are available. If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
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=> LOG HOLD

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        (FILE 'CASREACT' ENTERED AT 16:46:43 ON 25 JUN 2009)
                DEL HIS
L1              STRUCTURE UPLOADED
                D
L2          0 SEA FILE=CASREACT SSS SAM L1 (     0 REACTIONS)
L3          0 SEA FILE=CASREACT SSS FUL L1 (     0 REACTIONS)


    FILE 'STNGUIDE' ENTERED AT 16:48:02 ON 25 JUN 2009


    FILE 'CASREACT' ENTERED AT 16:51:11 ON 25 JUN 2009
L4              STRUCTURE UPLOADED
                D
L5          2 SEA FILE=CASREACT SSS SAM L4 (    45 REACTIONS)
                D SCAN
L6         11 SEA FILE=CASREACT SSS FUL L4 (   121 REACTIONS)
                D L6 1-11


    FILE 'CASREACT' ENTERED AT 16:59:49 ON 25 JUN 2009
L7              STRUCTURE UPLOADED
                D
L8          0 SEA FILE=CASREACT SSS SAM L7 (     0 REACTIONS)
L9          0 SEA FILE=CASREACT SSS FUL L7 (     0 REACTIONS)


    FILE 'STNGUIDE' ENTERED AT 17:00:40 ON 25 JUN 2009


    FILE 'CASREACT' ENTERED AT 17:02:03 ON 25 JUN 2009
L10             STRUCTURE UPLOADED
                D
L11         0 SEA FILE=CASREACT SSS SAM L10 (    0 REACTIONS)
L12         3 SEA FILE=CASREACT SSS FUL L10 (    3 REACTIONS)
                D L12
                D L12 1-3 BIB ABS HITSTR


    FILE 'CAPLUS' ENTERED AT 17:05:02 ON 25 JUN 2009
L13         3 SEA FILE=CAPLUS SPE=ON  PLU=ON  L12


    FILE 'CASREACT' ENTERED AT 17:05:27 ON 25 JUN 2009
                D L12 IBIB ABS HIT


    FILE 'CAPLUS' ENTERED AT 17:05:28 ON 25 JUN 2009


    FILE 'CASREACT' ENTERED AT 17:05:54 ON 25 JUN 2009
                D L12 IBIB ABS HITSTR 1-3


    FILE 'CAPLUS' ENTERED AT 17:06:05 ON 25 JUN 2009


    FILE 'CAPLUS' ENTERED AT 17:06:12 ON 25 JUN 2009
L14         3 SEA FILE=CAPLUS SPE=ON  PLU=ON  L12
                D L14 1-3 IBIB ABS HITSTR
                D L14 1-3 IBIB ABS HIT


    FILE 'STNGUIDE' ENTERED AT 17:07:39 ON 25 JUN 2009
COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
                                            ENTRY     SESSION
FULL ESTIMATED COST                            0.35    1455.75

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)     SINCE FILE     TOTAL
                                            ENTRY     SESSION
CA SUBSCRIBER PRICE                            0.00      -5.70
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 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 17:10:38 ON 25 JUN 2009
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